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Cd double-stranded DNA) which comprises one of the 7837 "GS" sequences
Cd given in T19001-T26837 and which is able to hybridise to part of
Cd chuman genomic DNA, cDNA or mRNA is claimed. The GS (Gene Signature)
Cd sequences were obtained from 3'-directed cDNA libraries prepared
Cd from various human tissues; synthesis of cDNA was initiated from the
Cd of mrNA by using poly(T) as the sole primer. Since the 3'-
Cd untranslated sequence is unique to a particular mRNA, species, almost
Cd all the 3'-oriented cDNAs hybridise with specific mRNAs. Each library
Cd is constructed so as to reflect accurately the relative abundance of
Cd different mRNAs in the particular tissue from which it was derived.
Cd determined (esp. using primers and probes derived from the GS
Cd cequences) as a means of diagnosing abnormal cell function or for
Cd recognising different cell types.
Cs sequence 84 BP; 28 A; 16 C; 19 G; 21 T;
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Matsubara K, Okubo K;
MPI; 95-206931/27.

Identifying gene signatures in 3'-directed human cDNA library -
Identifying gene signatures in 3'-directed human cDNA that
for diagnosis of abnormal cell function, by preparing cDNA that
reflects relative abundance of corresp. mRNA in specific human
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    Staphylococcus aureus
                                                             V74626 standard; DNA; 4121 BP
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                  ACCESSION
                                                    DEFINITION
                                                                                       RESULT 11
AC004977
                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURES
 VERSION
                                                                                                                                                                                                                           Query Match
Best Local S
Matches 45
                                                                                                                                                      source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Submitted (18-JAN-2000) Sanger Contire, Hinxton, Cambridgeshire, CB10 18A, UK. E-mail enquiries; humquery@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk
On Feb 16, 2000 this sequepce version replaced gi:6689798.

IMPORTANT: This sequence is unfinished and does not negessarily represent the correct sequence. Work on the sequence is in progress and the release of this data is based on the understanding that the sequence may change as work continues. The sequence may be contaminated with foreign sequence from E.coli, yeast, vector, phage etc. Order of segments is not known; 800/n's separate segments. Contig_ID: 00017 Length: 13765bp Contig_ID: 00182 Length: 1384bp Contig_ID: 00182 Length: 1082bp Contig_ID: 00828 Length: 1082bp Contig_ID: 00828 Length: 5150bp

Contig_ID: 00828 Length: 5150bp

Contig_ID: 00828 Length: 5150bp
                                                                                                                                                                                                                           ch 21.4%; Score 45;
l SimilarAty 100.0%; Pred. No.
45; Conservative 0; Mismatci
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unordered pieces.
AC004977
AC004977.1 GI:32
                                                  AC004977 106474 bp DNA Homo sapiens clone DJ1152C17,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Direct Submission
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 1162: contig of 1162 bp in length
1163 1962: gap of 800 bp
1963 15727 contig of 13765 bp in length
15728 16527: gap of 800 bp
16528 17911: contig of 1384 bp in length
17912 18714: gap of 800 bp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ontig_ID: 00828 Length: 1082bp ontig_ID: 00896 Length: 5150bp ontig_ID: 00906 Length: 1467bp ontig_ID: 00906 Length: 27265bp.

Note: This is a 'working draft' sequence. It currently note: This is a 'working draft' sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are yuknown. This record will be updazed with the finished sequence this record will be updazed with the finished sequence.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         64,006 69155: contig of 5150 bp in length
64156 69955: gap of 800 bp
69956 71422: contig of 1467 bp in length
71423 72222: gap of 800 bp
72223 99487: contig of 27265 bp in length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            912 1871: gap of 800 bp

912 6132: contig of 42612 b

9124 62123: gap of 800 bp

9124 63205: contig of 1082 bp

9206 64005: gap of 900 bp

906 69155: contig of 5150 bp
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/clone_lib="RPCI-3"
18947 c 17863 g 31206 t
                                                                                                                                                                                                                                                                                                                                                                                      /db_xref="£axon:9606"
/chromosgme="6"
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 GI:3213020
                                                                                                                                                                                                                                 Mismatches
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SEQUENCING IN PROGRESS ***,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity
                                                                                                                                                     Contact: humquery@sanger.ac.uk/
Contact: humquery@sanger.ac.uk/
Project Information
                                                                                                                                                                                                                                                                                                                   Submitted (20-APR-2000) Sanger Centre, Higkton, Cambridgeshire, CB10 15K, UK. E-mail enquiries: hunquery/sanger.ac.uk Clone requests: clonerequest(sanger.ac.uk on Agr 22, 2000 this sequence version replaced g1:7242677.
                Assembly program: XGAP4; //ersion 4.5 Sequencing vector: M13; /M77815; 14% of reads Sequencing vector: ply5m1d; L08752; 85% of reads Chemistry: Dye-terminator ABI; 1% of reads
                                                                                               Assembly program: XGAP4; version (
                                                                                                                                                                                                                                                                Center: Sanger Centre
Center code: SC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Chordata; Craniata; Vertebraza; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homipidae; Homo.
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HTG; HTGS_PHASE1; HTG8_DRAFT.
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Hamo sapiens chromosome 1
SEQUENCING IN PROGRESS ***
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Submitted (12-JUN-1998) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 (bases 1 to 106474) Waterston, R.H.
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Waterston, R.H.
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Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        Direct Submission
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/db_xref="taxon:9606"
/clone="DJ1152C17"
22910 c 23777 g 30830 t
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Location/Qualifiers
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1 clene RP4-635E18 map p36.11-36.31/
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     of 11 contigs. The true order of the piezes is * not known and their order in this sequence record is arbitrary. Where the contigs adjacent to the vector can * be identified, they are labelled with 'clone_end' in the * feature table. Some order and orientation information * can tentptively be deduced from paired sequencing reads * which have beep identified to span the gap between two * contigs. These are labelled as part of the same * 'fragment_chain', and the order and relative orientation * of the pieces within a fragment_chain is reflected in * this file. Gaps between the contigs are reppesented as * runs of N, but the exact sizes of the gaps are unknown. * This record will be updated with the finished sequence as * soon as it is available and the accession number will be * preserved.

1 55698 contig of 153698 bp in length; fragment_chain 1 * 70284 73838 contig of 15365 bp in length; fragment_chain 1 * 70284 73838 contig of 15364 bp in length; fragment_chain 1 * 7028 7038 70462 contig of 1555 bp in length * 12651 contig of 1562 bp in length * 12651 contig of 1563 bp in length * 12651 contig of 13456 bp in length; fragment_chain 2 * 11275 11313 contig of 2364 bp in length; fragment_chain 2 * 11275 11313 contig of 2364 bp in length; fragment_chain 2 * 112651 contig of 3456 bp in length; fragment_chain 2 * 112651 contig of 3466 bp in length; fragment_chain 2 * 112651 contig of 3466 bp in length; fragment_chain 2 * 112651 contig of 3466 bp in length; fragment_chain 2 * 112651 contig of 3466 bp in length; fragment_chain 2 * 112651 contig of 3466 bp in length; fragment_chain 2 * 112651 contig of 3466 bp in length; fragment_chain 2 * 112651 contig of 3466 bp in length; fragment_chain 2 * 112651 contig of 3466 bp in length; fragment_chain 2 * 112651 contig of 3466 bp in length; fragment_chain 2 * 112651 contig of 3466 bp in length; fragment_chain 2 * 112651 contig of 3466 bp in length; fragment_chain 2 * 112651 contig of 3466 bp in length; fragment_chain 2 * 112651 contig of 3466 bp in length; fragment_chain 2 * 11
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Insert & 1ze: 123727; 14.6% error; agarose-fp
Quality coverage: 5.57x in Q20 bases; sum-of
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                                                                                                                                                                                                             /note="assembly_fragment:00755"
80024. .81095
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81196. .112651
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fragment_chain:2"
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/clone="RP4-635E18"
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fragment_chain:1"
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fragment_chain:1"
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1. .55698
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/db_xref="taxon:9606"
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                                                                                                                                                                                                                                                                                               note="assembly_fragment:00638"
                                                                                                                                                                                                                                                                                                                                                                                                        note="assembly_fragment:00023"
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RESULT 1
AA157818/c
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                                                                                                  Pred. No. is the score greater the and is derived by
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AA157818 441 bp mRNA EST 16-DEC-1996 zo35h07.s1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:588925 3' similar to contains LTR7.t3 LTR7 repetitive element
                                                                                                  Query
Match
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118:
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120:
121:
122:
123:
124:
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gb_gss14:*
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AA135390
AW007800
AQ045412
AI092628
AL134462
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AQ240648
AQ309497
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AW665275
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                                                                     ALIGNMENTS
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AA224589 Z171610.S
AA02347 Z171A06.S
AA219559 Z499c04.S
AA216639 Z495107.S
AA250803 Z506f12.S
AA832265 OC91ff
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AA099427 z179910.

AA052890 z171e08.

AA135403 zo28e05.

AA135403 zo28e05.

AA055563 z175f05.

AA05563 z175f05.

AA135390 zo28b04...

AW007800 wt03c11...

AW007801 zo28b04...
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W02703 zc64d08.s1
AT264351 q109e06.x
AA424412 zv82g12.s
AA4264525 h)02g08.x
AA478483 zx246b08.s
AO238587 ppccii1-63
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AQ238587
R67329 Y1
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H03663 yj37gll.sk
T93545 yel4e05.kl
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yb50d07.s1
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2 RPC111-32
2 RPC111-32
2 CKFZP547.x
9 CKFZP547.x
3 CS99b03.s
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zu43h04.s
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                                                                                                                                                                                 ccctttgctgactctcttttcggactcagcccgcctgcacccaggtgaaataaacagcct
                                                                                                                                                    tgttgctcacaaaa 374
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4444 Forest Park Parkway, B
Tel: 314 286 1810
Fax: 314 286 1810
Email: est@watson.wustl.edu
                      mRNA Second
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97044478
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Mammalia; E
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AA157818
AA157818.1 GI:1732647
                                                            AAG99427
2179g10.sl Stratagene colon
IMAGE:510882 Similar to
                                                                                                                                                                                                                                                                                                                                                                                                                                       IMAGE Consortium (info@image.llnl.gov)
Seq primer: -40M13 fwd. from Amersham
High quality sequence stop: 297.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Email: esdewatson.wustl.edu
Email: esdewatson.wustl.edu
This clone is available royalty-free through LLNL; contact the
This clone is available royalty-free through LLNL; contact the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Generation and analysis of 280,000 human expressed sequence tags Genome_Res. 6 (9), 807-828 (1996)
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Hillier, L., Lennon, G., Becker, M.,
     Homo sapiens
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Similarity 100.0%; F
74; Conservative 0;
                man.
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                                                   sequence.
                                                                                                                                                                                                                                                                   /organism="Homo sapiens"
/db_xref="GDB:4626665"
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                                                                                                                                                                                                                                                                                                                                       /clone_lib="Stratagene colon (#937204)"
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/lab_host="SOLR cells (kanamycin resistant)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eutheria;
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                                                                                                                                                                                                             Score 74; DB; Pred. No. 1.7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          School of Medicine
way, Box 8501, St. Louis, MO 63108
                                                                                  mRNA
                                                               contains LTR7.
                                                                                                                                                                                                               DB 22; I
. 1.7e-29;
ches 0;
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                                                             EST DAT-JUL-1997 no sapiens cDNA clone tTR7 repetitive el
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Email: Robert_Strausberg@nih.gov
This clone is available royalty-free through LINL; contact the
IMAGE Consortkum (info@image.llnl.gov) for further information.
Seq primer: 400P from Gibco.
                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 407) NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap. National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
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                                                                                                                                                                                               Unpublished (1997)
On Apr 7, 1998 this sequence version
Contact: Robert Strausberg, Ph.D.
Tel: (301) 496-1550
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CONA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome
Clone distribution: NCI-CGAP clone distribution
found through the I.M.A.G.E. Consortium/LLNL at:
                                                                                                                                                       Email: Robert_Strausberg@nih.gov
cDNA Library Preparation: M. Ben
                                                                                                                                                                                                                                                                                   Tumor Gene Index
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Conservative
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/clone_11b="Soares_NFL_T_GBC_S1"
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/dh yraf="tayon:9606"
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                                                                                                                                                                                                                                                                    This clone is available royalty-free through LINL; contact the IMAGE Consortium (info@image.llnl.gov) for further information. Insert Length: 626 Std Error: 0.00
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National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AI914390 431 bp mRNA EST wd48d03.xx Soares_NFL_T_GBC_S1 Homo sapiens IMAGE:2341365 3', mRNA sequence.
                                                                                                                                                                                                                                  Seq primer: -40UP from Gibco
High quality sequence stop: 430.
                                                                                                                                                                                                                                                                                                                                                                     Contact: Robert Strausberg, Ph.D.
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1 (bases 1 to 431)
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Email: Robert_Strausberg@nih.gov
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Inote-porgan: pooled; Vector: pT7T3D-Pac (Pharmacia) with a-modified polylinker; Site_1: Not I; Site_2: Eco RI; Equal amounts of plasmid DNA from three normalized libraries (fetal lung NbHL19W, testis NHT, and B-cell NCI_CGAP_GCB1) were mixed, and ss circles were made in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT773 vector. Library went through one round of normalization to Cot5, and was constructed by Bento Soares and M. Fatima Bonaldo. "91 c 88 g 123 t
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/db_xref="taxon:9606"
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/db_xref="taxon:9606"
/clone="IMAGE:2331365"
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   H33155
EST108874 Rat I
Clone RPNAI21
                                                                                                                                                                                                                                                                            Query
Match
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213 bp mRNA
PC-12 cells, NGF-treated
5' end, mRNA sequence.
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             EST
(9 days)
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AZ061388 RPCI-23-4
AQ008470 CIT-HSP-2
AQ200054 RPCI11--4
AQ408255 V635C06.x
AQ418263 RPCI-111
AQ418263 RPCI-111
AQ094468 HS_3023L8
AA645356 V579912.r
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AA173133 UI-RY0-m
AA752975 HS_5256 B
B38668 HS-Y048-A1-
AA9536009 RFCI-11-4
AA9670115 Z1389 AM
AA045003 500007C01
AA667436 VV17907-r
AA239927 CIT-HSP-2
AI180247 EST223990
AA167478 AA274271
AZ74271 AZ74271
AZ74271 AZ74271
AZ74271 CIT-HSP-2
AA0330194 COLT-HSP-2
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AA0340564 500001941
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AQ482369 RPCI-1
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W22729 75C5 Human
Z19745 HSAAAACEW H
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ttus sp. cDNA
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360 UI-R-E1-G
531 UI-R-E1-f
342 UI-R-C0-1
186 CIT-HSP-2
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584 AYZ42584
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DKFZp4340
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DKFZp434K
                                 REFERENCE
AUTHORS
TITLE
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Tel: (301)-838-3529
Fax: (301)-838-0208
       Genome 1
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Bonaldo, M.F. / Lenno
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                                 Normalization and
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                                                                                Eukaryota; Metazoa
                                                                                         Rattus
                                                                                                  Norway rat
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For clone availability please
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                                                                                          norvegicus
               Res.
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                                                                                                                                                                                                                                                                                                                                                                 /organism="Rattus sp."
/db_xref="ATCC (inhost):2003416"
/db_xref="taxon:10118"
/clone="xpNAI21"
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Center Drive, Rockville,
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ACCESSION
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KEYWORDS
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AUTHORS
                                                     ORGANISM
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H33155.1
                                Eukaryota;
Mammalia; I
                                                      Rattus
                                                                 Rattus
                    Rattus
           (bases 1 to 213)
                                ; Metazoa;
Eutheria;
                                                                                       GI:978572
                                Chordata;
Rodentia;
                                Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae;
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Lee, N.H., Weinstock, K.G., Kirkness, E.F., Earle-Hughes, J.A., Fuldner, R.A., Marmaras, S., Glodek, A., Gocayne, J.D., Adams, M.D., Kerlavage, A.R., Fraser, C.M. and Venter, J.C. Comparative expressed sequence tag analysis of differential gene expression profiles in PC-12 cells before and after nerve growth 92, 8303-8307 (1995)

on Jan 6, 2000 this sequence version replaced g1:6676654.
other\_ESTs: EST108873

20850, TIGR Database USA

/cione\_lib="Rat PC-12 cells, NGF-treated (9 days)"
/note="Vector: pBluescript SK-; Site\_1: EcoRI; Site\_2: XhoI; poly(A)+ RNA was purified from 9-day NGF treated PC12 cells. cDNA was constructed using an oligo-dT prin and directionally cloned using the Lambda ZAP II Vector Kit by Stratagene"

8 43 c 51 g 44 t 2 others go-dT primer

Length 213; Indels 0 Gaps 0

Chordata; Craniata; Vertebrata; Rodentia; Sciurognathi; Muridae; mRNA EST UI-R EI Rattus norvegicus , mBNA sequence. approaches ξ 09-MAR-1996 s cDNA clope facilitate Euteleostomi; Murinae; gene